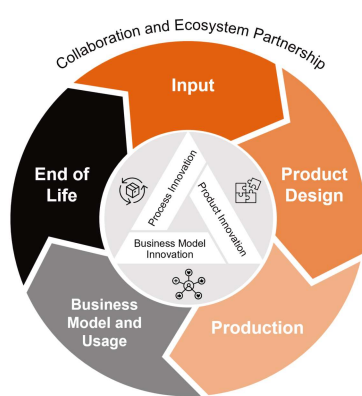


# Circularity



The circular economy sustains growth in a world of finite resources. It can spark innovation across products, processes, and business models.

Businesses integrating circularity can establish new business models and products that drive new revenue streams and market opportunities. Circularity can reduce supply chain risks and support stronger customer relations.



## How we serve our clients

Arcadis supports clients with integrating circularity across value chain and product life-cycle from raw material extraction to end of life.

### Regulatory Readiness

- Regulatory Landscape, Impact Assessment and Monitoring

### Waste Minimization

- Waste Audits
- Waste Minimization Strategies
- Waste Reduction Goals, Implementation Roadmaps, Measurement and Tracking

### Environmental Performance Assessment

- ISO-Compliant Life Cycle Assessment (LCA)
- Product Carbon Footprint

- Activity-Based Footprint
- Hotspot Analysis and Improvement Opportunities Across Product Life Cycle
- Product Environmental Footprint (PEF)
- Environmental Product Declaration (EPD) Reporting

### Sustainable Supply Chain

- Program Design and Implementation
- Supplier Engagement / Education / Capacity Building
- Supplier Data Collection, Goals, Commitments and Strategies
- Value Chain Impact, Risk and Opportunity Assessment
- Scope 3 Calculation

### Circularity Strategy, Business Model and Innovation

- Material and Product Circularity Recommendations
- Circular Business Models and Circular Economy Roadmaps
- Embedding Circular Economy in Business Strategy
- Collaboration and Ecosystem Partnership

### Sustainable Products

- Use Case and Economic Impact of Circular Products
- Green Chemistry and Alternative Raw Materials
- Design for Sustainability
- Product Portfolio Sustainability Strategy

## About Arcadis

Arcadis is the world's leading company delivering sustainable design, engineering, and consultancy solutions for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable solutions. We are more than 33,000 people, across more than 70 countries, dedicated to improving quality of life.

[www.arcadis.com](http://www.arcadis.com)

## Contact us

### Michelle Bachir

Managing Director - Sustainability Advisory North America

E [Michelle.Bachir@arcadis.com](mailto:Michelle.Bachir@arcadis.com)

### Andy Newcombe

Manager Product Stewardship and Sustainability

E [Andy.Newcombe@arcadis.com](mailto:Andy.Newcombe@arcadis.com)

### Noor Shaikh

Sustainability Advisory North America

E [Noor.Shaikh@arcadis.com](mailto:Noor.Shaikh@arcadis.com)

### Chrystelle Verhoest

Product Sustainability

E [Chrystelle.Verhoest@arcadis.com](mailto:Chrystelle.Verhoest@arcadis.com)

Visit our [website](#) for more information



## Case Studies

### Life Cycle Analysis for a global retailer | United States

Supported development of a branded product sustainability program, including life cycle assessment (LCA) methodology selection. We facilitated a half-day workshop to align internal stakeholders around LCA strategy and priorities. We also conducted material research and scoring for product portfolios to recommend specific LCA methodologies and software tools to implement as part of company strategy. The client leveraged the findings to develop their branded product sustainability program.

### Waste goal setting, target achievement planning, and model development for Cosmetics Company | United States

Supported development of a 2030 waste reduction goal and goal achievement roadmap as well as engaging with leadership for their approval. We analyzed historical raw waste data, drafted goal language and engaged stakeholders to identify challenges which was used to prepare a high-level glidepath and implementation roadmap, and a list of key actions to prioritize in the first year. We also developed a simple user-friendly waste model using Excel and Power BI Dashboards for internal teams to goal track progress. The roadmap for target achievement and waste model will serve as useful tools to the client and allow them to track and make progress toward their goals.

### Whole life carbon assessment for Automotive client | Global

Delivered a whole life carbon assessment used to advise the client on the steps needed to achieve GHG emission reductions aligned with its near and long-term targets. We calculated GHG emissions and identified emissions hotspots including energy consumption and carbon emissions embodied in vehicle materials. The client leveraged the analysis to develop GHG management strategies to help achieve GHG emissions targets including its net zero commitment.

### Roadmap Towards Circular Business Model for a Transmission System Operator | Europe

Developed understanding of circular economy for this sector, engaged with stakeholders and developed roadmap to include circularity in the business model. We organized a management workshop to introduce the concept of circularity and analyze opportunities, defined circularity relevant for the sector, explored and identified the business case of circular economy. We also developed a roadmap and supported in its implementation, including evaluating the actions required based on legislative requirements.

### Industrial symbiosis analysis | Europe

Evaluated potential opportunities of industrial symbiosis for waste streams generated by member organizations of client. We also evaluated and quantified environmental and financial benefits of two case studies by performing life cycle assessment for end-of-life vehicle EV batteries in energy storage applications and iron silicate replacing aggregates.

**Arcadis.** Improving quality of life

Connect with us



@ArcadisGlobal



Arcadis



@ArcadisGlobal



@ArcadisGlobal